

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P290167

Luminaire Tested: **8SSRK-LN-12-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290167  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-LN-12-L950-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10600.1 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

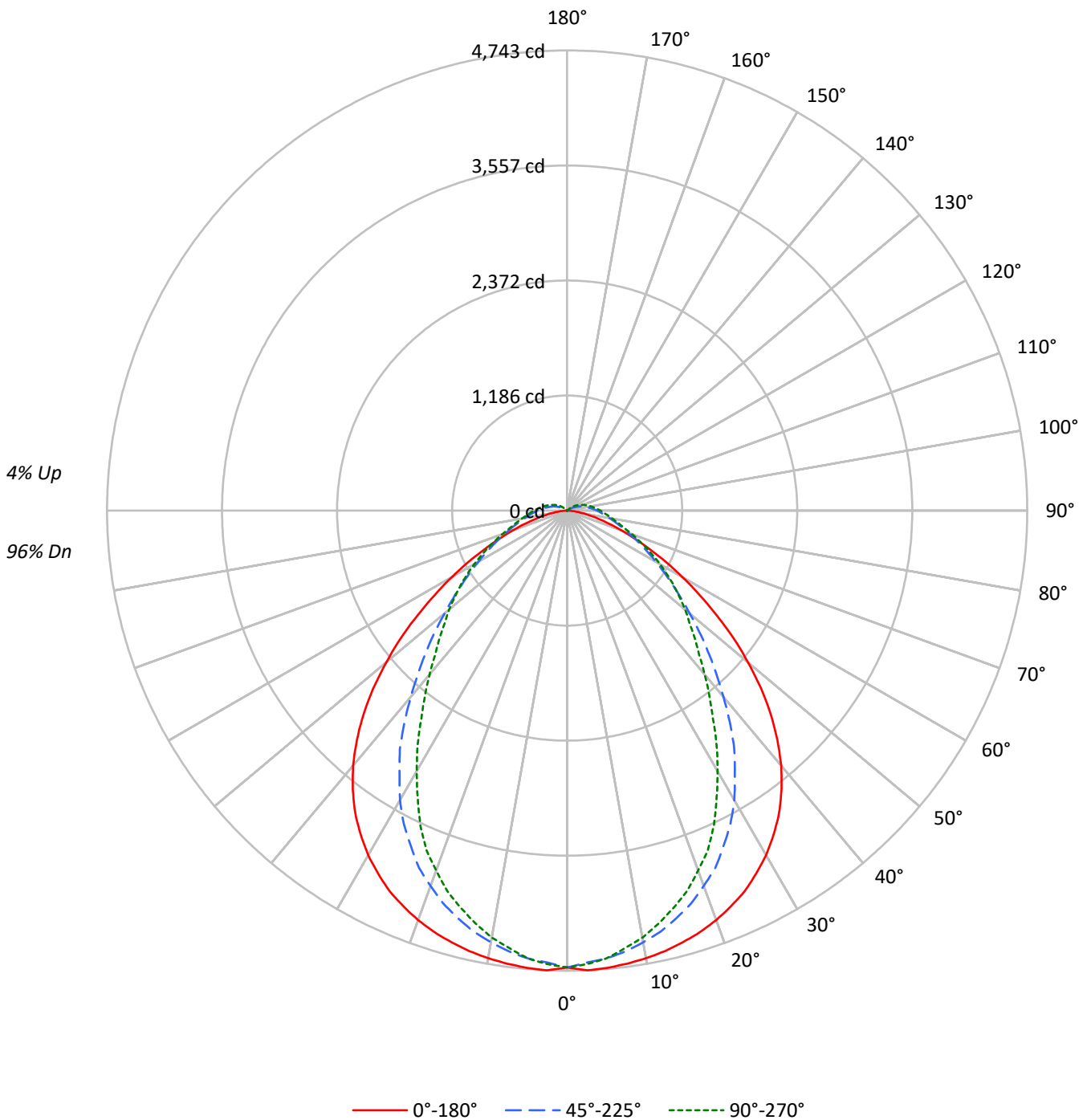
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	98	98	98	96		
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	87	85	83	87	85	83	81		
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	78	74	71	78	74	71	69		
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	70	65	62	70	65	62	59		
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	63	58	54	63	58	54	52		
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	57	52	48	57	52	48	46		
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	52	47	43	52	47	43	41		
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	48	43	38	48	43	38	36		
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	44	39	35	44	39	35	33		
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	41	36	32	41	36	32	30		
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	38	33	29	38	33	29	27		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	152044	152044	152044
5°	153076	120281	111264
10°	153051	98697	85934
15°	153137	82532	68373
20°	153187	69517	55244
25°	152778	58439	44507
30°	151111	48639	34932
35°	147975	39616	27191
40°	142185	31197	21363
45°	132841	24383	16976
50°	119162	18852	13824
55°	102712	14673	11229
60°	85553	11510	9028
65°	68203	9060	7130
70°	53215	7173	5605
75°	39834	5827	4462
80°	28821	4806	3700
85°	17895	4054	3154



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.0	4.2
10°-20°	1237.9	11.7
20°-30°	1784.0	16.8
30°-40°	1932.5	18.2
40°-50°	1711.6	16.1
50°-60°	1302.4	12.3
60°-70°	867.7	8.2
70°-80°	536.1	5.1
80°-90°	335.9	3.2
90°-100°	220.7	2.1
100°-110°	135.2	1.3
110°-120°	69.8	0.7
120°-130°	22.9	0.2
130°-140°	1.4	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3464.0	32.7
0°-40°	5396.4	50.9
0°-60°	8410.4	79.3
0°-90°	10150.1	95.8
90°-120°	425.7	4.0
90°-150°	450.0	4.2
90°-180°	450.0	4.2
0°-180°	10600.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4708	4708	4708	4708	4708	
5°	4731	4701	4634	4651	4634	450
15°	4606	4519	4350	4291	4237	1301
25°	4330	4126	3815	3651	3579	1992
35°	3808	3452	3006	2723	2622	2373
45°	2970	2504	2052	1896	1859	2278
55°	1879	1533	1319	1335	1339	1688
65°	932	818	842	890	894	942
75°	344	419	542	578	570	381
85°	60	216	366	404	398	73
90°	2	157	305	344	342	4
95°	6	111	253	293	292	4
105°	4	44	158	202	207	4
115°	4	4	81	126	137	3
125°	2	2	2	55	69	2
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4708.5	4708.5	4708.5	4708.5	4708.5
2.5°	4743.4	4717.3	4663.7	4694.8	4679.9
5°	4731.0	4701.1	4633.7	4651.2	4633.7
7.5°	4711.0	4673.6	4583.9	4591.3	4550.2
10°	4684.8	4635.0	4519.0	4506.6	4469.2
12.5°	4651.2	4581.4	4445.5	4395.6	4359.5
15°	4606.3	4519.0	4349.5	4290.9	4237.3
17.5°	4555.2	4443.0	4246.0	4175.0	4111.4
20°	4491.6	4350.7	4116.4	4017.9	3948.1
22.5°	4414.3	4249.8	3988.0	3844.6	3788.5
25°	4329.6	4126.4	3814.7	3651.4	3579.1
27.5°	4218.6	3990.5	3643.9	3439.5	3336.0
30°	4101.4	3829.7	3445.7	3210.1	3100.4
32.5°	3960.6	3653.9	3216.3	2965.7	2868.5
35°	3808.5	3451.9	3005.6	2722.6	2621.7
37.5°	3628.9	3233.8	2755.1	2495.8	2407.2
40°	3432.0	2996.9	2505.7	2277.6	2207.8
42.5°	3207.6	2756.3	2271.4	2074.4	2014.6
45°	2969.5	2504.5	2052.0	1896.1	1858.7
47.5°	2710.2	2252.7	1846.3	1735.3	1707.9
50°	2430.9	2000.8	1646.8	1585.7	1587.0
52.5°	2165.4	1762.7	1477.3	1461.1	1457.3
55°	1878.7	1533.4	1318.9	1335.1	1338.9
57.5°	1619.4	1320.2	1184.3	1214.2	1218.0
60°	1372.5	1129.4	1055.9	1102.0	1108.3
62.5°	1146.9	966.1	946.2	993.6	992.3
65°	932.5	817.8	841.5	890.1	893.8
67.5°	750.5	696.9	754.2	796.6	794.1
70°	595.9	588.4	669.4	714.3	711.8
72.5°	463.7	497.4	603.4	642.0	632.0
75°	344.1	418.9	542.3	578.4	569.7
77.5°	253.1	354.0	488.7	523.6	517.4
80°	173.3	300.4	442.6	478.7	471.2
82.5°	111.0	255.6	402.7	437.6	432.6
85°	59.8	215.7	366.5	403.9	397.7
87.5°	22.4	183.3	334.1	371.5	369.0
90°	2.5	157.1	305.4	344.1	341.6
92.5°	3.7	133.4	278.0	317.9	317.9
95°	6.2	111.0	253.1	293.0	291.7
97.5°	5.0	93.5	225.6	269.3	269.3
100°	5.0	77.3	200.7	244.3	246.8
102.5°	5.0	61.1	179.5	221.9	226.9
105°	3.7	43.6	158.3	202.0	206.9
107.5°	3.7	24.9	137.1	183.3	189.5
110°	3.7	6.2	118.4	163.3	170.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	3.7	99.7	144.6	152.1
115°	3.7	3.7	81.0	125.9	137.1
117.5°	2.5	2.5	59.8	109.7	119.7
120°	2.5	2.5	37.4	92.3	102.2
122.5°	2.5	2.5	16.2	73.6	87.3
125°	2.5	2.5	2.5	54.9	68.6
127.5°	2.5	2.5	1.2	32.4	48.6
130°	2.5	2.5	1.2	12.5	29.9
132.5°	2.5	2.5	1.2	1.2	8.7
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)